

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/6/3,472A

Source: 1FW/6

Date Processed by STIC: 6/28/05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 06/28/2005

PATENT APPLICATION: US/10/613,472A

TIME: 08:59:25

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\06282005\J613472A.raw

4 <110> APPLICANT: Ausubel, Frederick M.  
 5 Staskawicz, Brian J.  
 6 Brent, Andrew F.  
 7 Dahlbeck, Douglas  
 8 Katagiri, Fumiaki  
 9 Kunkel, Barbara N.  
 10 Mindrinos, Michael N.  
 11 Yu, Guo-Liang  
 13 <120> TITLE OF INVENTION: RPS2 GENE FAMILY, PRIMERS, PROBES, AND  
 14 DETECTION METHODS  
 17 <130> FILE REFERENCE: 00786/254004  
 19 <140> CURRENT APPLICATION NUMBER: US 10/613,472A  
 20 <141> CURRENT FILING DATE: 2003-07-02  
 22 <150> PRIOR APPLICATION NUMBER: US 09/867,852  
 23 <151> PRIOR FILING DATE: 2001-05-29  
 25 <150> PRIOR APPLICATION NUMBER: US 09/310,912  
 26 <151> PRIOR FILING DATE: 1994-09-22  
 28 <150> PRIOR APPLICATION NUMBER: US 09/301,085  
 29 <151> PRIOR FILING DATE: 1999-04-28  
 31 <150> PRIOR APPLICATION NUMBER: US 08/227,360  
 32 <151> PRIOR FILING DATE: 1994-04-13  
 34 <160> NUMBER OF SEQ ID NOS: 217  
 36 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 38 <210> SEQ ID NO: 1  
 39 <211> LENGTH: 2903  
 40 <212> TYPE: DNA  
 41 <213> ORGANISM: Arabidopsis thaliana  
 43 <400> SEQUENCE: 1  
 44 aagtaaaaga aagagcgaga aatcatcgaa atggatttca tctcatctct tatcgttggc 60  
 45 tgtgctcagg tggtgtgtga atctatgaat atggcggaga gaagaggaca taagactgat 120  
 46 cttagacaag ccatcactga tcttgaaaca gccatcgggtg acttgaaggc catactgat 180  
 47 gacctgactt tacggatcca acaagacggt ctagagggac gaagctgctc aaatcgtgcc 240  
 48 agagagtggc ttagtgcggt gcaagtaacg gagactaaaa cagccctact tttagtggag 300  
 49 tttaggcgtc gggaacagag gacgcgaatg aggaggagat acctcagttg tttcggttgt 360  
 50 gccgactaca aactgtgcaa gaaggtttct gccatattga agagcattgg tgagctgaga 420  
 51 gaacgctctg aagctatcaa aacagatggc ggggtcaattc aagtaacttg tagagagata 480  
 52 cccatcaagt ccgttgtcgg aaataccacg atgatggaac aggttttgga atttctcagt 540  
 53 gaagaagaag aaagaggaat cattgggtgtt tatggacctg gtgggggttg gaagacaacg 600  
 54 ttaatgcaga gcattaacaa cgagctgatc acaaaaaggac atcagtatga tgtactgatt 660  
 55 tgggttcaaa tgtccagaga attcggcgag tgtacaattc agcaagccgt tggagcacgg 720  
 56 ttgggtttat cttgggacga gaaggagacc ggcgaaaaca gagctttgaa gatatacaga 780  
 57 gctttgagac agaaacgttt cttgttgttg ctatgatgag tctgggaaga gatagacttg 840  
 58 gagaaaactg gagttcctcg acctgacagg gaaaacaaat gcaagggtgat gttcacgaca 900

P.6

## RAW SEQUENCE LISTING

DATE: 06/28/2005

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Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\06282005\J613472A.raw

```

59 cggctctatag cattatgcaa caatatgggt gcggaataca agttgagagt ggagtttctg 960
60 gagaagaaac acgcgtggga gctgttctgt agtaaggat ggagaaaaga tcttttagag 1020
61 tcatcatcaa ttcgccggt cgcggagatt atagtgaag aatgtggagg attgccacta 1080
62 gcgttgatca ctttaggagg agccatggct catagagaga cagaagaaga gtggatccat 1140
63 gctagtgaag ttctgactag atttccagca gagatgaagg gtatgaacta tgtatttgcc 1200
64 cttttgaaat tcagctacga caacctcgag agtgatctgc ttcggtcttg tttcttgtag 1260
65 tgcgctttat tcccagaaga acattctata gagatcgagc agcttggtga gtactgggtc 1320
66 ggcgaagggg ttctcaccag ctcccatggc gttaacacca tttacaaggg atattttctc 1380
67 attggggatc tgaaagcggc atgtttgttg gaaaccggag atgagaaaac acaggtgaag 1440
68 atgcataatg tggtcagaag ctttgcatgt tggatggcat ctgaacaggg gacttataag 1500
69 gagctgatcc tagttgagcc tagcatggga catactgaag ctcttaaagc agaaaactgg 1560
70 cgacaagcgt tggatgatctc attgttagat aacagaatcc agaccttgcc tgaaaaactc 1620
71 atatgccga aactgacaac actgatgctc caacagaaca gctctttgaa gaagattcca 1680
72 acagggtttt tcatgcatat gcctgttctc agagtcttgg acttgctgtt cacaagtatc 1740
73 actgagattc cgttgtctat caagtatttg gtggagttgt atcatctgtc tatgtcagga 1800
74 acaaaagataa gtgtattgcc acaggagctt gggaatctta gaaaactgaa gcactgggac 1860
75 ctacaaagaa ttcagtttct tcagacgatc ccacgagatg ccatatgttg gctgagcaag 1920
76 ctcgaggttc tgaacttgta ctacagttac gccggttggg aactgcagag ctttggagaa 1980
77 gatgaagcag aagaactcgg attcgctgac ttggaatact tggaaaacct aaccacactc 2040
78 ggtatcactg ttctctcatt ggagacccta aaaactctct tcgagttcgg tgctttgcat 2100
79 aaacatatac agcatctcca cgttgaagag tgcaatgaac tcctctactt caatctccca 2160
80 tactcacta accatggcag gaacctgaga agacttagca ttaaaagttg ccatgacttg 2220
81 gagtacctgg tcacaccgc agattttgaa aatgattggc ttccgagtct agaggttctg 2280
82 acgttacaca gccttcacaa cttaaccaga gtgtggggaa attctgtaag ccaagattgt 2340
83 ctgcggaata tccgttgcat aaacatttca cactgcaaca agctgaagaa tgtctcatgg 2400
84 gttcagaaac tcccaaagct agaggtgatt gaactgttcg actgcagaga gatagaggaa 2460
85 ttgataagcg aacacgagag tccatccgtc gaagatccaa cattgttccc aagcctgaag 2520
86 accttgagaa ctagggatct gccagaacta aacagcatcc tcccatctcg attttcattc 2580
87 caaaaagttg aacattagt catcacaaat tgcccagag ttaagaaact gccgtttcag 2640
88 gagaggagga cccagatgaa cttgccaaca gtttatttg aggagaaatg gtggaaagca 2700
89 ctggaaaaag atcaaccaa cgaagagctt tgtatttac cgcgctttgt tccaaattga 2760
90 tataagagct aagagcactc tgtacaaata tgtccattca taagtagcag gaagccagga 2820
91 aggttggtcc agtgaagtca tcaactttcc acatagccac aaaactagag attatgtaat 2880
92 cataaaaacc aaactatccg cga 2903

```

94 &lt;210&gt; SEQ ID NO: 2

95 &lt;211&gt; LENGTH: 885

96 &lt;212&gt; TYPE: PRT

97 &lt;213&gt; ORGANISM: Arabidopsis thaliana

99 &lt;400&gt; SEQUENCE: 2

```

100 Lys Lys Glu Arg Glu Ile Ile Glu Met Asp Phe Ile Ser Ser Leu Ile
101 1 5 10 15
102 Val Gly Cys Ala Gln Val Leu Cys Glu Ser Met Asn Met Ala Glu Arg
103 20 25 30
104 Arg Gly His Lys Thr Asp Leu Arg Gln Ala Ile Thr Asp Leu Arg Ile
105 35 40 45
106 Gln Gln Asp Gly Leu Glu Gly Arg Ser Cys Ser Asn Arg Ala Arg Glu
107 50 55 60
108 Trp Leu Ser Ala Val Gln Val Thr Glu Thr Lys Thr Ala Leu Leu Leu
109 65 70 75 80

```

## RAW SEQUENCE LISTING

DATE: 06/28/2005

PATENT APPLICATION: US/10/613,472A

TIME: 08:59:25

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\06282005\J613472A.raw

```

110 Val Arg Phe Arg Arg Arg Glu Gln Arg Thr Arg Met Arg Arg Arg Tyr
111      85      90      95
112 Leu Ser Cys Phe Gly Cys Ala Asp Tyr Lys Leu Cys Lys Lys Val Ser
113      100      105      110
114 Ala Ile Leu Lys Ser Ile Gly Glu Leu Arg Glu Arg Ser Glu Ala Ile
115      115      120      125
116 Lys Thr Asp Gly Gly Ser Ile Gln Val Thr Cys Arg Glu Ile Pro Ile
117      130      135      140
118 Lys Ser Val Val Gly Asn Thr Thr Met Met Glu Gln Val Leu Glu Phe
119 145      150      155      160
120 Leu Ser Glu Glu Glu Arg Gly Ile Ile Gly Val Tyr Gly Pro Gly
121      165      170      175
122 Gly Val Gly Lys Thr Thr Leu Met Gln Ser Ile Asn Asn Glu Leu Ile
123      180      185      190
124 Thr Lys Gly His Gln Tyr Asp Val Leu Ile Trp Val Gln Met Ser Arg
125      195      200      205
126 Glu Phe Gly Glu Cys Thr Ile Gln Gln Ala Val Gly Ala Arg Leu Gly
127      210      215      220
128 Leu Ser Trp Asp Glu Lys Glu Thr Gly Glu Asn Arg Ala Leu Lys Ile
129 225      230      235      240
130 Tyr Arg Ala Leu Arg Gln Lys Arg Phe Leu Leu Leu Leu Asp Asp Val
131      245      250      255
132 Trp Glu Glu Ile Asp Leu Glu Lys Thr Gly Val Pro Arg Pro Asp Arg
133      260      265      270
134 Glu Asn Lys Cys Lys Val Met Phe Thr Thr Arg Ser Ile Ala Leu Cys
135      275      280      285
136 Asn Asn Met Gly Ala Glu Tyr Lys Leu Arg Val Glu Phe Leu Glu Lys
137      290      295      300
138 Lys His Ala Trp Glu Leu Phe Cys Ser Lys Val Trp Arg Lys Asp Leu
139 305      310      315      320
140 Leu Glu Ser Ser Ser Ile Arg Arg Leu Ala Glu Ile Ile Val Ser Lys
141      325      330      335
142 Cys Gly Gly Leu Pro Leu Ala Leu Ile Thr Leu Gly Gly Ala Met Ala
143      340      345      350
144 His Arg Glu Thr Glu Glu Glu Trp Ile His Ala Ser Glu Val Leu Thr
145      355      360      365
146 Arg Phe Pro Ala Glu Met Lys Gly Met Asn Tyr Val Phe Ala Leu Leu
147      370      375      380
148 Lys Phe Ser Tyr Asp Asn Leu Glu Ser Asp Leu Leu Arg Ser Cys Phe
149 385      390      395      400
150 Leu Tyr Cys Ala Leu Phe Pro Glu Glu His Ser Ile Glu Ile Glu Gln
151      405      410      415
152 Leu Val Glu Tyr Trp Val Gly Glu Gly Phe Leu Thr Ser Ser His Gly
153      420      425      430
154 Val Asn Thr Ile Tyr Lys Gly Tyr Phe Leu Ile Gly Asp Leu Lys Ala
155      435      440      445
156 Ala Cys Leu Leu Glu Thr Gly Asp Glu Lys Thr Gln Val Lys Met His
157      450      455      460
158 Asn Val Val Arg Ser Phe Ala Leu Trp Met Ala Ser Glu Gln Gly Thr

```

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```

159 465          470          475          480
160 Tyr Lys Glu Leu Ile Leu Val Glu Pro Ser Met Gly His Thr Glu Ala
161          485          490          495
162 Pro Lys Ala Glu Asn Trp Arg Gln Ala Leu Val Ile Ser Leu Leu Asp
163          500          505          510
164 Asn Arg Ile Gln Thr Leu Pro Glu Lys Leu Ile Cys Pro Lys Leu Thr
165          515          520          525
166 Thr Leu Met Leu Gln Gln Asn Ser Ser Leu Lys Lys Ile Pro Thr Gly
167          530          535          540
168 Phe Phe Met His Met Pro Val Leu Arg Val Leu Asp Leu Ser Phe Thr
169 545          550          555          560
170 Ser Ile Thr Glu Ile Pro Leu Ser Ile Lys Tyr Leu Val Glu Leu Tyr
171          565          570          575
172 His Leu Ser Met Ser Gly Thr Lys Ile Ser Val Leu Pro Gln Glu Leu
173          580          585          590
174 Gly Asn Leu Arg Lys Leu Lys His Leu Asp Leu Gln Arg Thr Gln Phe
175          595          600          605
176 Leu Gln Thr Ile Pro Arg Asp Ala Ile Cys Trp Leu Ser Lys Leu Glu
177          610          615          620
178 Val Leu Asn Leu Tyr Tyr Ser Tyr Ala Gly Trp Glu Leu Gln Ser Phe
179 625          630          635          640
180 Gly Glu Asp Glu Ala Glu Glu Leu Gly Phe Ala Asp Leu Glu Tyr Leu
181          645          650          655
182 Glu Asn Leu Thr Thr Leu Gly Ile Thr Val Leu Ser Leu Glu Thr Leu
183          660          665          670
184 Lys Thr Leu Phe Glu Phe Gly Ala Leu His Lys His Ile Gln His Leu
185          675          680          685
186 His Val Glu Glu Cys Asn Glu Leu Leu Tyr Phe Asn Leu Pro Ser Leu
187          690          695          700
188 Thr Asn His Gly Arg Asn Leu Arg Arg Leu Ser Ile Lys Ser Cys His
189 705          710          715          720
190 Asp Leu Glu Tyr Leu Val Thr Pro Ala Asp Phe Glu Asn Asp Trp Leu
191          725          730          735
192 Pro Ser Leu Glu Val Leu Thr Leu His Ser Leu His Asn Leu Arg Cys
193          740          745          750
194 Ile Asn Ile Ser His Cys Asn Lys Leu Lys Asn Val Ser Trp Val Gln
195          755          760          765
196 Lys Leu Pro Lys Leu Glu Val Ile Glu Leu Phe Asp Cys Arg Glu Ile
197          770          775          780
198 Glu Glu Leu Ile Ser Glu His Glu Ser Pro Ser Val Glu Asp Pro Thr
199 785          790          795          800
200 Leu Phe Pro Ser Leu Lys Thr Leu Arg Thr Arg Asp Leu Pro Glu Leu
201          805          810          815
202 Asn Ser Ile Leu Pro Ser Arg Phe Ser Phe Gln Lys Val Glu Thr Leu
203          820          825          830
204 Val Ile Thr Asn Cys Pro Arg Val Lys Lys Leu Pro Phe Gln Glu Arg
205          835          840          845
206 Arg Thr Gln Met Asn Leu Pro Thr Val Tyr Cys Glu Glu Lys Trp Trp
207          850          855          860

```

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PATENT APPLICATION: US/10/613,472A

TIME: 08:59:25

Input Set : A:\Seqlist.txt

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```

208 Lys Ala Leu Glu Lys Asp Gln Pro Asn Glu Glu Leu Cys Tyr Leu Pro
209 865                      870                      875                      880
210 Arg Phe Val Pro Asn
211                      885
214 <210> SEQ ID NO: 3
215 <211> LENGTH: 20
216 <212> TYPE: PRT
217 <213> ORGANISM: Arabidopsis thaliana
219 <400> SEQUENCE: 3
220 Glu His Ser Val Gln Ile Cys Pro Phe Ile Ser Ser Arg Lys Pro Gly
221 1                      5                      10                      15
222 Arg Leu Phe Gln
223                      20
226 <210> SEQ ID NO: 4
227 <211> LENGTH: 6
228 <212> TYPE: PRT
229 <213> ORGANISM: Arabidopsis thaliana
231 <400> SEQUENCE: 4
232 Ser His Gln Leu Ser Thr
233 1                      5
236 <210> SEQ ID NO: 5
237 <211> LENGTH: 11
238 <212> TYPE: PRT
239 <213> ORGANISM: Arabidopsis thaliana
241 <400> SEQUENCE: 5
242 Arg Leu Cys Asn His Lys Asn Gln Thr Ile Arg
243 1                      5                      10
246 <210> SEQ ID NO: 6
247 <211> LENGTH: 28
248 <212> TYPE: PRT
249 <213> ORGANISM: Arabidopsis thaliana
251 <400> SEQUENCE: 6
252 Ser Lys Arg Lys Ser Glu Lys Ser Ser Lys Trp Ile Ser Ser His Leu
253 1                      5                      10                      15
254 Leu Ser Leu Ala Val Leu Arg Cys Cys Val Asn Leu
255                      20                      25
258 <210> SEQ ID NO: 7
259 <211> LENGTH: 25
260 <212> TYPE: PRT
261 <213> ORGANISM: Arabidopsis thaliana
263 <400> SEQUENCE: 7
264 Ile Trp Arg Arg Glu Glu Asp Ile Arg Leu Ile Leu Asp Lys Pro Ser
265 1                      5                      10                      15
266 Leu Ile Leu Lys Gln Pro Ser Val Thr
267                      20                      25
270 <210> SEQ ID NO: 8
271 <211> LENGTH: 6
272 <212> TYPE: PRT
273 <213> ORGANISM: Arabidopsis thaliana

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 06/28/2005  
PATENT APPLICATION:    US/10/613,472A      TIME: 08:59:26

Input Set : A:\Seqlist.txt  
Output Set: N:\CRF4\06282005\J613472A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:158; N Pos. 3,9,12,13,15,18,24  
Seq#:159; N Pos. 1,4,7,10,16,19  
Seq#:160; N Pos. 4  
Seq#:161; N Pos. 1,4,7,10,16,19,21,22,25,28,31  
Seq#:162; N Pos. 3,6,9,12,13,15,18,24  
Seq#:164; N Pos. 15  
Seq#:165; N Pos. 4,13,16,19,21,22,25  
Seq#:166; N Pos. 3,9,12,13,15,18,21  
Seq#:167; N Pos. 1,4,7,10,16,19  
Seq#:168; N Pos. 1,4,7,10,20  
Seq#:169; N Pos. 1,4,7,10  
Seq#:171; N Pos. 15  
Seq#:172; N Pos. 1,3,4,7,10,13,16,19,22  
Seq#:173; N Pos. 3,6,9,12,15  
Seq#:175; N Pos. 3,6,12,15,17,18  
Seq#:176; N Pos. 3,9,15,18  
Seq#:177; N Pos. 3,9,12  
Seq#:178; N Pos. 3,18  
Seq#:179; N Pos. 3,6,15  
Seq#:180; N Pos. 7,16  
Seq#:181; N Pos. 6,15  
Seq#:182; N Pos. 12,15  
Seq#:183; N Pos. 12,15  
Seq#:184; N Pos. 1,4,10  
Seq#:185; N Pos. 3,9,15  
Seq#:186; N Pos. 7,10,13,16,19  
Seq#:187; N Pos. 3,6,9,12,15  
Seq#:191; Xaa Pos. 2,3,5,10,11  
Seq#:192; Xaa Pos. 1,2,3,5,6,7,10,11  
Seq#:193; Xaa Pos. 1,2,3,4,5,7  
Seq#:194; Xaa Pos. 5,6,7,8  
Seq#:195; Xaa Pos. 1,2,5,6  
Seq#:202; Xaa Pos. 5  
Seq#:203; Xaa Pos. 5  
Seq#:204; Xaa Pos. 4,5,6  
Seq#:206; Xaa Pos. 3,7  
Seq#:209; Xaa Pos. 2,3,4,5,6,8,9,11,12,14,15,16,17,18,19,20,21,22,23  
Seq#:210; Xaa Pos. 2,3,4,5,6,8,9,11,12,14,16,17,19,20,21,22,23  
Seq#:211; Xaa Pos. 1,2,3,5,6,8,9,10,11  
Seq#:212; Xaa Pos. 1,2,5,6,7

## VERIFICATION SUMMARY

DATE: 06/28/2005

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Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\06282005\J613472A.raw

L:2075 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (137) SEQUENCE:

L:2568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158 after pos.:0

L:2581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:159 after pos.:0

L:2594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160 after pos.:0

L:2607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161 after pos.:0

L:2620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162 after pos.:0

L:2641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:164 after pos.:0

L:2654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:165 after pos.:0

L:2667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:166 after pos.:0

L:2680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:167 after pos.:0

L:2693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:168 after pos.:0

L:2706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:169 after pos.:0

L:2727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:171 after pos.:0

L:2740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:172 after pos.:0

L:2753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173 after pos.:0

L:2774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175 after pos.:0

L:2787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176 after pos.:0

L:2800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0

L:2813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178 after pos.:0

L:2826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179 after pos.:0

L:2839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:0

L:2852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:0

L:2865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182 after pos.:0

L:2878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183 after pos.:0

L:2891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0

L:2904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185 after pos.:0

L:2917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:186 after pos.:0

L:2930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:187 after pos.:0

L:2976 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:191

L:2980 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:191

L:2984 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:191

L:2988 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:191

L:2989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191 after pos.:0

L:3007 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:192

L:3011 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:192

L:3015 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:192

L:3019 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:192

L:3023 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:192

L:3027 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:192

L:3031 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:192

L:3032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:192 after pos.:0

L:3050 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:193

L:3054 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:193

L:3058 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:193

L:3062 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:193

L:3066 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:193

L:3067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:193 after pos.:0

L:3085 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:194



## VERIFICATION SUMMARY

DATE: 06/28/2005

PATENT APPLICATION: US/10/613,472A

TIME: 08:59:26

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\06282005\J613472A.raw

L:3089 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:194  
L:3093 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:194  
L:3094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:194 after pos.:0  
L:3112 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:195  
L:3116 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:195  
L:3120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:195  
L:3121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195 after pos.:0  
L:3138 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (197) SEQUENCE:  
L:3193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202 after pos.:0  
L:3208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:0  
L:3226 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:204  
L:3230 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:204  
L:3231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:0  
L:3259 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:206  
L:3260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:0  
L:3298 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:209  
L:3299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0  
M:341 Repeated in SeqNo=209  
L:3319 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:210  
L:3320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:0  
M:341 Repeated in SeqNo=210  
L:3340 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:211  
L:3344 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:211  
L:3345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:211 after pos.:0  
L:3363 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:212  
L:3364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212 after pos.:0